

# **ARCHITECT AND BUILDER QUICK REFERENCE GUIDE**

**For the 2006 Edition of the Michigan Residential Code - Adopted 8/1/08**

*Zoning approvals*

*Engineering approvals including Soil Erosion*

*County approvals*

*Health department approvals*

*Other local related ordinances*

## **Administration**

Signature on application.

Builder's license/registration and name. **P.A. 299 of 1980.**

Workers compensation insurance or exemption. **P.A. 230 of 1972**

MESC employer number or exemption. **P.A. 230 of 1972**

Federal employer ID number or exemption. **P.A. 230 of 1972**

Plans require architect's or engineer's seal and signature > (3500 SQ')

## **Location on Lot**

One hour rating for exterior walls located less than 3 feet from property line. **Table R302.1**

No exterior wall opening in walls less than 3 feet from property line. **Table 302.1**

Indicate any and all easements.

Placement of footings below grade will encroach into easement.

## **Attached Garages**

1-3/8" solid wood door or honeycomb core steel door or 20 min. fire rated door. **R309.1**

Garage separation 1/2" gypsum board on garage side. 5/8" X on ceilings in garage. **R309.2**

Floor slope to main entry doorway or a drain. **R309.3**

## **Foundations**

Indicate frost protection 42" below grade. **R403.1.4**

Wood foundation designed in accordance with **AF+PA TR7 and Chapter 4**

Site grading slope 6" in the first 10'. **R401.3**

Footing size **Table R403.1**

Foundation anchorage: 1/2" diameter bolts at 6' O.C. 12" from corner 7" embedment **R403.1.6**

Anchor strap shall be spaced and install according to manufacture's specifications

Mobile home tie downs. **Appendix E, Section AE 604**

Foundation wall size, Height of unbalanced fill. **R404, Table R404.1.1(1)-(5)**

Indicate stanchion pads.

Indicate beam size and spacing.

Indicate drain tile for foundation. **R405**

Waterproofing required. **R406.2**

Damp-proofing required. **R406.1**

Indicate gravel under basement floors. **R506.2.2**

Vapor barrier of 6-mil plastic required under basement floor. **R506.2.3**

## **Walls**

Indicate stud spacing, double top plates. **R602.3.1-R602.3.2**

Indicate bracing: Corner bracing of wall. **R602.10.1, Table R602.10.1**

Indicate framing over openings: Headers, materials, size, and spans. **R602.7-Table R502.5 (1) (2)**

Manufactured headers and beam loading. Span charts or engineering from manufacturer.

Masonry veneer requires sheathing, flashing and weeping holes 33" O.C. **R703.2, R703.7.5, R703.7.6 and R703.8.**

## **Naturally Durable or Pressure Treated Wood**

Pressure treated wood required. **R319**

Floor joist closer than 18" to ground. **R319.1**

Wood girders closer than 12" to ground. **R319.1**

Wood framing members on exterior walls closer than 6" from exposed earth. **R319.1**

Sleepers and sills on concrete or masonry. **R319.1**

Wood siding closer than 6" to the earth. **R319.1**

## **Floors**

Size of structural member allowable span of floor joists. **R502, Table R502.3.1 (1)(2)**

Cantilever framing - joists maximum projection. **R502.3.3, Table R502.3.3(1)-(2)**

	Lateral support and bridging mid span over 8'. <b>R502.7, R502.7.1</b>	
	Manufactured joist beams loading. Span charts	
	Allowable girder spans and support. <b>R502.5 Table R502.5(1)(2)</b>	
	Floor sheathing. <b>R503.1, Tables R503.1, R503.2.1.1(1) and R503.2.1.1(2)</b>	
	Provide finish floor schedule.	
<b>Roofs</b>		
	Ground and snow loading <b>R301.2(5)</b>	
	Size of structural member, spans of rafters, spacing and pitch. <b>R802.4</b>	
	Roof sheathing material. <b>R803.1</b>	
	Truss engineering, sealed engineered truss diagram required at time of rough. <b>R802.10 R802.10.1</b>	
	Roof tie downs straps. <b>R802.11, R802.11.1</b>	
	Asphalt shingles not allowed on 2/12 or below. <b>R905.2.7</b>	
	Felt underlayment required, two layers below 4/12. <b>R905.2.7</b>	
	Ice and snow shield required 24" inside exterior wall line. <b>R905.2.7.1</b>	
	Flashing required wall/roof intersections, chimneys, vents, change of roof slope/direction. <b>R703.8, R903.2, R905.2.8.</b>	
	Chimney height above roof; 24" above roof within 10' <b>R1003.9</b>	
<b>Means of Egress</b>		
	Emergency egress windows in bedrooms and basements 5.7 (5.0 grade) 24" height 20"; window sill height 44" max <b>R310.1.1, R310.1.2, R310.1.3</b>	
	Exit door 36" - 80" height <b>R311.4.2</b>	
	Passageways and hallways min. 36". <b>R311.3</b>	
	Stairway width 36". <b>R311.5.1</b>	
	Stairway landing 3'x3'. <b>R311.4.3 R311.5.4</b>	
	Maximum rise 8-1/4-- minimum tread 9" <b>R311.5.3</b>	
	Nosing on solid risers 3/4 min. 1-1/4 max. <b>R311.5.3.3</b>	
	Minimum headroom on stairs 6'-8". <b>R311.5.2</b>	
	Winders 6" min. @ narrowest point. 10" at a point 12" from narrowest point of tread <b>R311.5.3.2</b>	
	Spiral stairways. <b>R311.5.8</b>	
	Handrails required for stairs with 4 or more rises. <b>R311.5.6</b>	
	Handrail within dwelling 34" minimum 38" maximum. <b>R311.5.6 R311.5.6.1</b>	
	Guardrails must be 36" minimum on Porches, balconies open stairs or raised floors over 30". <b>R312</b>	
	Balusters spaced such that a sphere with a diameter of 4" can not pass through any opening, no ladder effect. <b>R312.2</b>	
<b>Interior Environment</b>		
	Light required minimum glazing 8%. <b>R303.1</b>	
	Ventilation required minimum openable area 4%. <b>R303.1</b>	
	Access to attic. Minimum size 22"x30". <b>R807.1</b>	
	Access to crawl spaces minimum 18" x 24". <b>R408.4</b>	
	Minimum ceiling height 7'0". <b>R305</b>	
	Sloped ceilings. <b>R305.1, Exception 3</b>	
	Roof space ventilation 1/150 or 1/300. <b>R806</b>	
	Crawl space ventilation 1.150. 1/300 with vapor barrier and manual louvers. <b>R408.1, R408.2</b>	
	Hearth extension less than 6 sq.' opening 16"/8" --6 sq.' opening and over 20"/12". <b>1001.9</b>	
	Smoke detectors in bedrooms, immediate vicinity of bedrooms, each floor and basement. <b>R313.2</b>	
	Safety Glazing in doors and adjacent to doors within the same wall plane. <b>R308.4</b>	
	Safety Glazing in fixed panels more than 9 SQ' with the lowest edge less than 18" to floor. <b>R308.4</b>	
	Safety Glazing in walls enclosing bathtubs, showers and whirlpools. <b>R308.4</b>	
	Safety Glazing in Skylights, roofs and sloped glazing. <b>R308.6</b>	
	Provide Michigan Energy Code calculation or show compliance on plans.	

8/1/08